

1	<b>THERMAL RELEASER OR ACTUATOR</b>	33	<b>CLOSURE SHIFTABLE TO PIT OR</b>
2	.Nonfusible		<b>OBSTACLE BRIDGING POSITION</b>
3	.Common fuse releases closures	34	<b>DISTORTABLE; E.G., FLEXIBLE</b>
	for plural openings		<b>STRAND-TYPE BARRICADE</b>
4	.Pull cable with fusible	35	<b>CHECK OR KEY CONTROLLED</b>
	connection	36	<b>CONTINUOUS CLOSURE OPENING IN</b>
5	.Terminates counterweight		<b>INTERSECTING BARRIERS</b>
	condition	37	<b>CONVERTIBLE</b>
6	..Overbalanced by released weight	38	<b>REGISTERABLE OPENING IN FACIALLY</b>
	supplementing counterweight		<b>OPPOSED CLOSURE AND BARRIER</b>
7	.Fusible closure latch or	39	.Radially positioned
	retainer	40	<b>CONVEX OR CONCAVE CLOSURE AND</b>
8	..Fusible connector disengages		<b>OPENING</b>
	pawl or catch	41	<b>ARCuate CLOSURE ROTATES ACROSS</b>
9	<b>IMPACT ABSORBING FLEXIBLE</b>		<b>ARCuate OPENING</b>
	<b>BARRICADE</b>	42	<b>PLURAL WINGS RADIATE FROM COMMON</b>
10	<b>FLOOD ACTUATED</b>		<b>PIVOT; I.E., REVOLVING</b>
11	.Float or vane controlled latch	43	.With speed regulator
	release	44	.Wings fold for through passage
12	.Axially pivoted picket pole	45	..Move laterally of opening
13	<b>CLOSURE CONDITION SIGNAL OR</b>	46	.Successive position-type; e.g.,
	<b>INDICATOR</b>		turnstile
14	.Indicator at remote station	47	..Drop-arm type
15	<b>JAIL-TYPE CLOSURE WITH REMOTE</b>	48	<b>WITH SECTION FOR HAND SIGNALLING</b>
	<b>CONTROL STATION</b>	49	<b>WITH TRAFFIC DIRECTOR OR</b>
16	.Additional key or combination		<b>CONTROLLER; E.G., ONE-WAY</b>
	control of individual closure	50	<b>WITH PROTECTIVE GRILLE OR SAFETY</b>
17	.Enclosure for remote control		<b>GUARD</b>
18	.Motor operated control	51	.Facing interconnected movable
19	.Rotary gang bar		louvers
20	.Ganged closures with selector	52	.Closure operator extends through
	means		grille
21	<b>RESPONSIVE TO OR DIRECTLY</b>	53	..Swinging handle actuator
	<b>ACTUATED BY AMBIENT FLUID</b>	54	.Carried by closure to vacated
22	.Fluid softenable or soluble		opening
	latch release	55	.Adjustable to various size
23	.Water accumulator-type		opening
24	<b>WITH MASTER CONTROL FOR</b>	56	.Moves relative to primary
	<b>INDIVIDUALLY CONTROLLED</b>		closure
	<b>CLOSURES</b>	57	.Removable
25	<b>RADIANT ENERGY CONTROL</b>	58	<b>WITH ANIMAL BLOCKER REPELLER OR</b>
26	<b>SAFETY MEANS RESPONSIVE TO</b>		<b>CHASER</b>
	<b>OBSTRUCTION TO CLOSURE</b>	59	.Electrically charged
27	.Sensing shoe on leading edge	60	.Actuated by closure movement
28	.Closure drive stopping or	61	<b>FACIALLY OPPOSED PRIMARY AND</b>
	reversal		<b>AUXILIARY CLOSURE FOR COMMON</b>
29	<b>TIME CONTROLLED</b>		<b>OPENING</b>
30	.Predetermined delay governs	62	.Auxiliary movable or removably
	start of closure movement		mounted on primary
31	<b>CONDITION RESPONSIVE CONTROL</b>	63	.Auxiliary mounted for movement
32	<b>INITIAL MANUAL DISPLACEMENT</b>	64	..Of interconnected movable
	<b>ENERGIZES MOTOR DRIVE; E.G.,</b>		louvers
	<b>TOUCH PLATE INITIATOR</b>		

65	..Connected for movement with primary	101	..Lever interconnected
66	...Sliding primary imparts swinging movement	102	..Cable interconnected
67	..Pivoted	103	.Sequential movement
68	<b>SEQUENTIAL CLOSURES FOR PASSAGEWAY</b>	104	.Closures mounted for swinging
69	<b>MAIN CLOSURE ACTUATES SUPPLEMENTAL CLOSURE FOR TRACKWAY</b>	105	..Treadle or treadle bar interconnector
70	<b>COMBINED</b>	106	...Common interconnector actuated from opposite approaches
71	<b>WITH SIDE PANELS; E.G., AWNING</b>	107	..Geared, interconnector or interconnector operator
72	<b>WINDOW POSITION OR MOVEMENT INTERRELATED WITH DOOR LATCH</b>	108	...Drives lever pivoted on closure
73.1	<b>CLOSURES INTERCONNECTED FOR CONCURRENT MOVEMENT</b>	109	..Link or link system interconnected
74.1	..Louver-type closures (e.g., slats or panels)	110	...With operator or energy stored opening means
77.1	..Distinct groups of louver-type closures	111	....Allochiral link system from closures to input connection
79.1	..Manipulation of control louver panel connects or disconnects remaining louver panels	112	.....Input acts at pivot of diverging links
80.1	..Louver panels move sequentially or independently	113	.....Links sliding carriage mounted
81.1	..Multidirectional louver panel movement	114	....Actuating force applied through one closure to other closure
82.1	..Geared, interconnector or operator	115	..Cable interconnector sheaved on closure pivots
86.1	..Cable, interconnector or operator	116	.Opposed similar movement
87.1	..Operating system includes a handle	117	..With actuator on opposite approaches
89.1	..Operating system includes biasing means	118	..Motor driven
90.1	..With position holder for operating system	119	..Counterbalance effect derived from opposed closure
91.1	..With weather seal feature	120	...Bipartite, center-opening type; e.g., elevator door
92.1	..Specific louver structure	121	...Cable interconnected
93	.Closures on opposite approaches to crossing	122	..Lever interconnected
94	.Closures on opposite or angularly related barriers	123	..Cable interconnected
95	.Closures in spaced openings along barrier	124	<b>EXTENSIBLE BAR SECTIONS</b>
96	..Levers acting between interconnector and closures	125	<b>MOUNTED FOR MOVEMENT TO FACIALLY STACKED POSITION</b>
97	...Rock shaft interconnector	126	.From vertical to horizontal overhead stacked position
98	.One closure with complete independent movement	127	.From collinear to stacked position
99	..Counterbalancing closures with adjustable or detachable cable interconnector	128	<b>COLLINEAR CLOSURES, ONE MOVES TO OFFSET POSITION</b>
100	.Moves at different speeds	129	.Moved closure has additional movement
		130	.Horizontal sliding
		131	<b>CLOSURE SURFACE MOVED TO INOPERATIVE POSITION FLUSH-WITH-GROUND</b>

132	.Treadle actuated	163	.One closure movable separately from or with other closure
133	..Actuation raises closure to blocking position	164	..Closure slide within swingable frame
134	...Treadle on opposite approaches	165	...Divided frame with pivoted section
135	<b>WITH WIND VANE OR SAIL</b>	166	..Upper closure mounted on horizontally swinging closure; e.g., sliding window on swinging door
136	<b>SINGLE ACTUATOR SELECTIVELY MOVES INDIVIDUAL CLOSURES</b>	167	...Power conduit for upper closure extends across hinge
137	<b>UNITARY OR INTERRELATED FLUID OPERATOR AND CLOSURE CHECK</b>	168	..Plural independently mounted movable closures
138	<b>WITH MEANS TO VARY OPENING SPAN OR SPEED DURING MOVEMENT</b>	169	..Within encompassing closure
139	<b>OPTIONALLY MOVED, MANUALLY, OR BY MOTOR</b>	170	...With common edge
140	.With manually actuated operator	171	...Viewing, ventilating, or packet passage
141	<b>WITH SPECIFIED MEANS TO EFFECT EMERGENCY RELEASE TO CLOSURE</b>	172	.Edgewise separable stile-slide supports closure for vertical swinging
142	<b>PLURAL CLOSURES, EACH WITH INDEPENDENT DIVERSE MOVEMENT</b>	173	..Coil spring bias coaxial of closure pivot
143	.One sliding and other swinging	174	.Edgewise retractable bearing acting between closure and portal frame
144	..One slides up to close, other vents about vertical axis	175	..Towards closure
145	..One slides vertically, other swings about horizontal axis	176	.Pivot mounted on sliding member; e.g., slide-stile
146	<b>VERTICALLY RECIPROCABLE, ADDITIONAL SIDEWARD VENTING MOVEMENT FROM CLOSED POSITION</b>	177	..Vertical axis pivot
147	<b>CLOSURE HANGS ON FLACCID CONNECTOR</b>	178	...With free stile slide-portal latch
148	<b>DISPARATE SUPPORT FOR DISPLACED CLOSURE</b>	179	...Displaceable stop strip
149	<b>MOUNTED FOR OPTIONAL MOVEMENTS</b>	180	...Free stile slide-closure latch, closure carried
150	.Common counterbalance for sliding and swinging movements	181	..Vertical position holder actuated by pivoting closure
151	..Cable guide changes direction of counterbalancing force	182	..Diagonally opposed stop flanges on stile slide or closure
152	.One movement multidirectional	183	..Key or latch between closure and stile slide
153	..Swings on link	184	...Longitudinal key
154	...Other movement is sliding on link at balance point of closure	185	...Retractable edgewise towards closure
155	...Other movement is sliding within portal frame	186	...Cap-type latch
156	..Slides on pivoted support, other movement is relative vertical adjustment	187	..Link-brace between closure and stile slide
157	..Other movement is vertical sliding	188	.Separable hinge permits sliding of closure
158	.Mounted on rod for sliding or swinging	189	..Retractable portion
159	..With latch for sliding movement	190	.Means adjusting closure vertically on vertical support pivot
160	...Rod latch	191	..Angularly adjusted about horizontal pivot
161	.Pivoted closure within framework of double hung sash		
162	..Vertical axis pivot		

192	.On alternative axes	227	..Permits movement from housing to raised closed position
193	..On opposite ends of closure	228	..Gravitates on tilted track
194	.Movable or removable guide	229	...Oscillating track
195	..Pivoted	230	....Sectional or nonlinear
196	...Closure swings with guide	231	...Pendant closure
197	<b>UP-AND-OVER TYPE; E.G., MOVES FROM VERTICAL TO WITHDRAWN HORIZONTAL OVERHEAD POSITION</b>	232	..Swings on coplanar pivotal link arm
198	.Independently movable closure sections	233	...Longitudinal-spaced parallel links
199	..With operator	234	..Closure actuated vertically to retard horizontal travel
200	..And counterbalance	235	...By track roller-closure displacement
201	.Upward sliding followed by distinct swinging	236	.One direction imparts gravitational bias to swinging closure; e.g., rising hinge
202	..Pivoted guide	237	..Biased by inclined cam and descending slide or roller
203	.On lever or link	238	...Shiftable cam
204	..Pivoted at closure	239	...Mating inclined cam and slide surfaces
205	...Multiple links angularly related	240	..Shiftable pivot
206	...Actuating spring codirectional with or acts on links	241	...On crank arm
207	<b>SUPERIMPOSED CLOSURES, INDEPENDENT EDGEWISE MOVEMENT TO SIDE OF OPENING</b>	242	...Mounted on eccentric or lever
208	<b>MOUNTED FOR MULTIDIRECTIONAL OR OBLIQUE MOVEMENT</b>	243	....Pivot on hinge post cap lever
209	.Initial or terminal movement transverse to sliding movement edgewise of portal	244	....Pivot on vertically oscillating lever
210	..Common operator for both movements	245	...Pivot pin shifted in slot
211	..Transverse movement aligns closure for movement into housing	246	.Swings on plural axes; e.g., pivotal link arms
212	..Transversely movable track	247	..Axes normal to each other
213	..Skewed track	248	..Multiple links angularly related
214	...Separate track section for rear of closure	249	...One link jointed
215	...Rear of closure moves transversely on crank arm	250	..With additional slide guiding closure movement
216	..Moves transversely on link	251	...Friction slide mount; e.g., biased
217	...Closure pivoted to tilting link-carriage	252	...Guide on portal frame
218	...Crank arm-type link	253	..Link at closure balance point
219	....Paired sets of crank arms	254	.Sequential translation and swinging
220	.....Operator interconnected with sets	255	..Operated vertically to permit horizontal swinging
221	..Closure carried by track-mounted carriage	256	...Camming lever
222	...Tiltable carriage	257	..Translation shifts pivot axis
223	...Closure hinged to carriage	258	..Translates on pivoted axis
224	...Inclined transverse movement	259	...Supporting frame extends laterally of its pivot
225	...Terminal cam	260	.Pivot axis moves along guide
226	.In plane of closure; e.g., oblique	261	.Swings about seat on portal frame; e.g., indeterminate axis

262	<b>VEHICLE ACTUATED ROLLER OR CARRIAGE OR CARRIED COOPERANT</b>	294	...Duplicate links release common latch
263	<b>TREADLE OR IMPACT INITIATED OPERATOR</b>	295	...Crank link-type interconnector
264	..Switch in approach to closure	296	...Bell crank-type interconnector
265	..Fluid controller in approach to closure	297	...Latch train includes closure mounted cable guide
266	..With alternative hand operator	298	...Link system interconnector
267	..Two-stage operator	299	...Allochiral actuators to common latch release
268	..Sequential initiators for latch release and operator	300	..Common input, diverse trains to latch and closure mover
269	..Spaced open and close initiators on opposite sides of closure	301	..One direction pull cable-type
270	..Plural interconnected paired initiators	302	..Actuator at remote station
271	..Releases latch from either side	303	<b>CLOSURE MOVEMENT ACTUATED RETRACTABLE SEALING, GUIDING OR LOCKING STRIP</b>
272	..Releases latch	304	..Strip mounted on sill
273	..Load maintained, self-returning	305	..Interengages strip on closure
274	..Spring return	306	..Strip movement in plane of closure
275	<b>CLOSURE MOVED BY STEP-BY-STEP OPERATOR</b>	307	..Horizontally reciprocating plunger actuator
276	<b>STARTER-TYPE OPERATOR; E.G., SEAL BREAKER</b>	308	...Lever interconnects or cams strip
277	..Lever actuator engages strap-fastener or longitudinally shiftable bar	309	..Oblique movement
278	..Handle-camming lever	310	..Resilient means swings strip to retracted position
279	<b>OPERATOR INTERRELATED WITH CLOSURE LATCH RELEASE</b>	311	..Offset or lever actuator, axis parallel to strip axis
280	..Motor driven	312	...Spring coaxial or strip axis
281	..Common actuator, different movements to unlatch and move closure	313	..Deflector in path of strip
282	..Actuator or opposite approaches	314	...Jamb mounted
283	..Latch for diverse positions of closure, separate trains	315	..Weight or gravity biased to retracted position
284	..Latch train and closure operator train from diverse points on actuator	316	<b>OPERATOR FOR RETRACTABLE SEALING, GUIDING OR LOCKING STRIP</b>
285	..Lever interconnector, separate trains to latch and closure mover	317	..Opposed strips actuated concurrently
286	..Force applied at closure pivot releases latch	318	..With interconnected strip on adjacent side
287	...Geared	319	..Interrelated with closure latch
288	...Sheaved	320	..Rotating shaft normal to plane or strip movement
289	..Closure or latch interposed in endless or looped cable	321	..Includes lever
290	..Lost motion branched cable	322	<b>WITH SAFETY BRAKE OR CATCH</b>
291	..Lost motion pin or lever and slot	323	<b>CLOSURE GUIDED FROM HOUSING BY RETRACTABLE SUPPORT</b>
292	..Lost motion cam drive	324	<b>WITH OPERATOR FOR MOVABLY MOUNTED CLOSURE</b>
293	..Closure moving force applied through latch releaser	325	..Reversibly flexible and rigid rod
		326	..Moves closure in either direction from closed position
		327	..Actuated from opposite approaches

328	..By vertically oscillating lever	365	<b>CLOSURE MOUNT OR STOP ON</b>
329	...Link system connects lever to closure		<b>INDEPENDENT MOVABLE OR</b>
			<b>REMOVABLE CENTER POST</b>
330	....Actuating force applied between link pivots; e.g., over center toggle-type	366	<b>BIPARTITE, CENTER OPENING</b>
		367	.Overlapping meeting edges
331	..Pull cable, lever interconnector	368	..With disparate seal
		369	..Z-bar-type edge
332	..Cable with pulley or drum	370	.Sliding closures
333	.Coaxial of closure pivot	371	<b>SWINGING CLOSURES CLOSING SINGLE</b>
334	..Motor driven		<b>OPENING</b>
335	..Coaxial gear	372	<b>STORED IN HOUSING</b>
336	...Rack drive	373	.With cover or lid for housing opening
337	...Worm drive	374	.Reciprocates vertically in and out of housing
338	..Link drives coaxial connector		
339	.Operating lever or link and closure swing about parallel axes	375	..Vertical extension on closure bottom edge guided with housing
340	..Motor-driven lever	376	..Inclined guide on side edge of portal opening
341	..Gear-driven lever		
342	...Toothed lever end engages gear	377	..With cushioning means adjacent housing opening
343	...Lever carries screw gearing component	378	..One-piece housing facing and portal frame contains guide
344	..Reciprocating rod drives lever	379	<b>LATCH RELEASE OF MOVEMENT-STORED</b>
345	..Multiple links		<b>ENERGY</b>
346	..Lever end slide engages guide on closure	380	<b>MOVABLE CLOSURE AND ITS SUPPORT</b>
347	.One direction pull cable		<b>TRANSFERABLE AS UNIT</b>
348	.Drive within closure housing	381	<b>WITH MEANS MOUNTING CLOSURE FOR</b>
349	..Motor driven		<b>SWINGING</b>
350	..Gear-driven lever moves within limits of housing	382	.Hinging position reversal means
		383	.Hinge edge, finger guard, lock or disparate seal
351	...Multiple levers		
352	..Cable drive	384	..Cylinder and sleeve-type
353	..Exposed handle drives concealed lever	385	.Transverse pivot; e.g., single pivoted corner
354	.Through wall type	386	.With biasing means
355	..With weather seal or flap for drive element	387	..Distinct weight
356	.Push-rod actuator	388	.Pivots on opposed portal members
357	.Remote actuating or initiating station	389	..Closure removable in inclined position
358	.Closure-mounted drive	390	..Closure portions on opposite sides of portal in open position
359	..Lever-actuated drive		
360	.Operator drives closure along guide	391	...Inclined opposed member; e.g., vent window-type
361	..Common input for drives adjacent opposed guides	392	...Diagonally opposed stops or seals
362	..Rack or screw parallel to closure guide	393	....On pivot carrying portal members
363	..Lever	394	.With latch or lock
364	<b>BUMP ACTUATED LATCH RELEASE FOR BIASED CLOSURE</b>	395	..Plural; e.g., gang
		396	.Compensator for front end weight; e.g., sag preventer

397	.Unitary structural member and hinge element	429	..Cooperates with counterbalance hardware
398	.Concealed hinge	430	...Counterbalance within jamb-guide gap
399	.Hinge leaf mounted on closure edge surface	431	..Interengaging sections on portal and closure
400	.Closure nests within portal frame	432	...On parting strip and adjacent closures
401	..Marginal closure flange overlaps portal frame	433	...Plural interdigitants
402	.Closure overlies portal frame	434	..Single guide or slide for facially adjacent closures
403	.Louver end caps; e.g., mounting clips	435	...Parting strip with integral, opposite wings
404	<b>WITH MEANS MOUNTING CLOSURE FOR RECIPROCATATION</b>	436	..Bearing includes transverse restrainer
405	.By link mount	437	...Closure mounted
406	.With plug, flap, or bridger for meeting rail	438	....On closure edge
407	.Guide mounted stop spaces closure from sill	439	.....Cap-type
408	.Drain or vent in guide or sash	440	...Channel guide
409	.Pendant from horizontal guide	441	....Converging sides or ends
410	..With guide for lower edge of closure	442	...Guide engages slot in closure
411	...Threshold or sill guide	443	....On closure face
412	..Overlapping angles shield track-closure crevice	444	....Portion engages edge surface
413	.Horizontally sliding sashless-type	445	.With counterbalance
414	.With distinct biasing means for slide or guide	446	..Connected to slide mount of removable closure
415	..Acting transversely of closure face	447	..Guide-concealed weight pocket
416	...Biased side guide or parting strip	448	...Displaceable guide section permits access to weight pocket
417	..With means to adjust or retract biaser	449	.With latch or lock
418	...Adjusting screw coaxial of coil spring	450	..Plural open positions
419	..Nonmetallic biaser	451	...Friction holder
420	..Ball or roller bearing	452	.With means to adjust guide position
421	..Closure carried	453	.Slide or guide feature for closure removal
422	..Biased permits self-adjustment of single guide for plural closures	454	..Detachable or displaceable stile or slide strip
423	..Slide or guide with transverse restrainer	455	..Guide mounted for repeated movement
424	.Baffle plate guided in chamber slot	456	..Removable guide
425	.Revolving guide component; e.g., roller or gear	457	...Interfitted retainers, guide, and frame
426	..Offset from plane of portal; e.g., freight car door	458	.Interengaging meeting rails
427	..On support edgewise of passage	459	.Guide includes deformed or cast component
428	.Diverse or springy material guide or slide	460	<b>HANDLE OR PROTECTOR</b>
		461	.Receptor for pole handle
		462	.Edge protector
		463	<b>REMOVABLE CLOSURE</b>
		464	.With separable closure sections
		465	.Releasable means on closure

466 .Displaceable sealing or binding  
strip

467 **THRESHOLD**

468 .Adjustable

469 .With diverse seal

470 ..Closure carried

471 .With drain or vent

472 **COMBINED SEAL, STOP AND  
STIFFENER; I.E., CLEAT**

473 .With additional seal

474 .Eddy current or airspace trap

475.1 **CLOSURE SEAL; E.G., STRIKER  
GASKET OR WEATHERSTRIP**

476.1 .With fluid drain, or closure  
face mounted deflector; e.g.,  
sill seal

477.1 .Inflatable or fluid pressure  
responsive

478.1 .Magnetic

479.1 .With corner or corner forming  
portions; i.e., corner seal

480.1 .With distinct biasing means

482.1 .With feature for segmenting,  
replacing, adjusting, or  
severing

483.1 .Having complementary engaging  
portions on closure or closure  
and portal frame

484.1 .Plural distinct seals

489.1 .Anchored in channel or slot in  
closure or portal frame

490.1 .U-shaped member or portion  
mounts seal

492.1 .Held by snap fastener

493.1 .With holder; e.g., securing  
sheath

495.1 .Plural sealing contact points

496.1 .Spaced or superposed flange  
cantilevered from edge of base  
portion; e.g., leaf-spring  
type

498.1 .Tubular or tubular portion

499.1 .Bulged sealing surface  
intermediate securing ends

500.1 .Windlace-type

501 **PANEL WITH CLOSURE FEATURE**

502 .With means to accommodate window  
accessory; e.g., automobile-  
type door

503 .Modified to accommodate lock or  
latch

504 **FRAME WITH CLOSURE FEATURE**

505 .Adjustable frame

506 **PROCESSES**

507 **MISCELLANEOUS**

## FOREIGN ART COLLECTIONS

FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

## DIGESTS

DIG 1 THERMAL BREAKS FOR FRAMES

DIG 2 PLASTIC FRAME COMPONENTS